DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below-named inventor, George R. Brandes, Chris S.Christos and Xueping Xu, do hereby declare that my residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **"AMORPHOUS SILICON CARBIDE THIN FILM ARTICLES"**, the specification of which

(check one) ☒ is attached hereto.
☐ was filed on _____ as Application Serial No. _____
☐ and was amended _____(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

(Number)	(Country)	(Day/Month/Year Filed)	Priority Claimed ☐ Yes ☒ No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this specification is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Number)	(Filing Date)	(Status-Patented, Pending, abandoned)
09/461,693	December 14, 1999	Pending
08/575,484	December 20, 1995	U.S. Patent No. 6,031,250

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

OLIVER A. ZITZMANN, Reg. No. 38,691

STEVEN J. HULQUIST, Reg. No. 28,021

MARGARET CHAPPUIS, Reg. No. 45,735

All correspondence in connection with this application should be sent to:

Oliver A. Zitzmann
ATMI, Inc.
7 Commerce Drive
Danbury, CT 06810
Telephone: (203) 794-1100

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of first inventor: George R. Brandes
Inventor's Signature _____ Date 4/25/00
Residence: 77 Shane Drive, Southbury, Connecticut 06488
Citizenship: USA
Post Office Address: 77 Shane Drive, Southbury, Connecticut 06488

Full Name of second inventor: Chris S.Christos
Inventor's Signature _____ Date 4/25/00
Residence: 67 Laurel Hill Road, Brookfield, Connecticut 06804
Citizenship: USA
Post Office Address: 67 Laurel Hill Road, Brookfield, Connecticut 06804

Full Name of third inventor: Xueping Xu
Inventor's Signature _____ Date 4/20/00
Residence: 15 Central Street, Stamford, Connecticut 06906
Citizenship: China P.R.
Post Office Address: 15 Central Street, Stamford, Connecticut 06906

172-CIP

ASSIGNMENT

We, George R. Brandes, Chris S.Christos and Xueping Xu have made an invention described in the concurrently submitted United States Patent Application claiming priority of United States Patent Application No. 09/461,693 filed on December 14, 1999, now pending, which is a divisional of United States Patent Application No. 08/575,484, filed on December 20, 1995, now U.S. Patent 6,031,250, issued on February 29, 2000, entitled

"AMORPHOUS SILICON CARBIDE THIN FILM ARTICLES"

We assign to Advanced Technology Materials, Inc., 7 Commerce Drive, Danbury, Connecticut 06810, all of our ownership and rights in:

(i) the invention and U.S. Patent Application;
(ii) U.S. Patents on the invention; and
(iii) corresponding foreign patent applications and patents.

We are making this assignment based on our relationship with Advanced Technology Materials, Inc.

We request the Commissioner of Patents and Trademarks of the United States and the appropriate officers of all foreign countries to issue patents on the invention to Advanced Technology Materials, Inc.

We agree to execute any other legal documents that may be required to effectuate this Assignment.

We agree that we will promptly communicate to Advanced Technology Materials, Inc. all facts that come to our attention affecting the invention or patent rights.

We agree that we will testify in any interference or litigation involving the invention or patent rights.

We state that we have not previously taken any action in conflict with this Assignment.

George R. Brandes

4/25/00
Date

State: *Connecticut*
County: *Fairfield*

George R. Brandes appeared before me on 4-25-00, 2000. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntary.

Janet Holderman
Notary Public

(SEAL)

My commission expires on:
4-30-02

Chris S. Christos
Chris S.Christos

4/25/00
Date

State: *Connecticut*
County: *Fairfield*

Chris S.Christos appeared before me on 4-25-00, 2000. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntary.

Janet Holderman
Notary Public

(SEAL)

My commission expires on:
4-30-02

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Xueping Xu

4/20/00
Date

State: *Connecticut*

County: *Fairfield*

Xueping Xu appeared before me on 4-20-00, 2000. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntary.

Notary Public

(SEAL)

My commission expires on:
4-30-02

FOR RECORDING PURPOSES